

Taking the Load Off

PAGES 6-7



B.R.A.C. BRINGS NAVY BACK

PAGE 9



Versatile Artillery



PAGE 8



THE PICATINNY VOICE



Vol. 24 No. 20

<https://www.pica.army.mil/evoice>

Published in the interest of the Picatinny Arsenal, N.J., community

November 4, 2011

Picatinny strengthens Afghan self defense with D30 howitzer program

Training will be provided in addition to 194 howitzers

BY AUDRA CALLOWAY

Picatinny Public Affairs

As American forces draw down from Afghanistan, Picatinny Arsenal is helping the Afghan National Army (ANA) develop an indirect fire capability to bolster self-defense.

Picatinny, in conjunction with the Combined Security Transition Command-Afghanistan, will support the acquisition of 194 D30, 122mm Howitzers for the Afghan National Army.

In addition to supporting the acquisition of the howitzers, the Program Executive Office Ammunition (PEO Ammo) has also helped establish a training and mentoring program at the Central Work Shop (CWS) in Kabul, Afghanistan. At the CWS, mentors/instructors are teaching an Afghan work force how to properly overhaul, repair and maintain the weapons.

To accomplish this mission, PEO Ammo has enlisted the support of the Project Manager for Towed Artillery Systems (PM TAS) and subject matter experts in the areas of optical fire control, canon, quality assurance and weapon systems from the Armament Research Development & Engineering Center (ARDEC).

To date, this team has successfully delivered 85 of the required 194 howitzers.

"This program supports our country's strategy of exiting Afghanistan," said Keith Gooding, Program Manager, Towed Artillery Systems. "Part of that exit strategy is helping the Afghans become self-sufficient so they can support and defend themselves."

"We're training the Afghan Army to use the artillery properly and we're giving them the weapons to fulfill their artillery mission," Gooding said. "The idea is to



One of the howitzers that has completed the inspection process is loaded onto an IL-76 aircraft at Tuzla Airport in Bosnia and Herzegovina in preparation for delivery to Afghanistan.

leave them in a position that they're able to sustain themselves when we're gone, so they can stand on their own once American and NATO troops leave the country."

Afghans are familiar with the D30 Howitzer capability, said Ray Espinosa,

the ARDEC Project Officer for the D30 Howitzer Program.

The D30 was developed by the Soviets in the 1960s and is still the most widely used howitzer in the world today.

See D30, Page 3

ARDEC engineer at Benét is NE Civilian of the Year



At right, Benét Labs engineers Jeanne Brooks and Kristopher Renadette, listen to user feedback from members of the M119A2 Operator New Equipment Training Team. Photo courtesy Benet Labs

BY JOHN B. SNYDER

Benét Laboratories Public Affairs

WATERVLIET ARSENAL, N.Y. -- Jeanne Brooks of the U.S. Army Benét Laboratories was named the Northeast Region Department of the Army Civilian of the Year by the Association of the United States Army during its annual meeting last month in Washington, D.C.

According to AUSA, this award was not only for Brooks' exceptional service to the Army for the last 11 years, but also for her significant contributions to the local community.

Brooks, who has a master's degree in materials engineering from the Rensselaer Polytechnic Institute and is currently a mechanical engineer with Benét Labs.

She is the integrated product team leader for artillery cannon engineering efforts at the Watervliet Arsenal.

In that role, Brooks' extensive experience in indirect fire systems has made it possible for the Army to institute numerous improvements to weapon safety and capability to support our Soldiers.

Recently, Brooks was instrumental in capturing a \$14 million Army contract for the arsenal to improve breechblocks for the 105mm howitzer.

These design improvements will not only improve Soldiers' safety, but will also reduce the number of

breechblock parts by 30 percent, which should reduce maintenance cost and downtime because fewer parts will be affected by wear and tear.

As noteworthy as her accomplishments are at the arsenal, her service to the community is what set her aside from others who were nominated for this award.

COMMUNITY SERVICE

Brooks earned her New York state pre-hospital care certification as an emergency medical technician 12 years ago.

Since then, Brooks has dedicated up to 48 hours a month volunteering as an emergency medical technician and driver for the Ballston Lake Emergency Squad.

The squad serves the towns of Ballston and Clifton Park.

It is not uncommon for Brooks to work a full shift at the arsenal, then respond to emergency medical calls throughout the night.

Benét Laboratories, located at the Watervliet Arsenal in upstate New York, are part of the Armament Research, Development and Engineering Center at Picatinny Arsenal.

Benét Laboratories performs technology, design, development, engineering and production and field support for large caliber armament systems.

PicatinnyBriefs

Holiday Ball set for Dec. 3

Commanding General Brig. Gen. Jonathan A. Maddux cordially invites you to attend the Picatinny Arsenal Holiday Ball on Saturday, Dec. 3 at 6 p.m. at the Cannon Gate Catering and Conference Center at Picatinny Arsenal.

The cost is \$55 per person. The menu options are:

- Beef Tenderloin with Brandy Cream Sauce
- Stuffed Lobster Tail
- Chicken Francaise
- Spinach Stuffed Portobello Mushroom

All meals served with Mixed Greens with Raspberry Vinaigrette, Fresh Broccoli, Risotto and Chocolate Truffle Torte.

Military dress: Army Blues; Dress Mess; Greens with White Shirt and Bow Tie; Army Service Uniform with Bow Tie. **Civilian dress:** Tuxedo/Business Suit; Formal Gown/Cocktail dress

Checks should be payable to the Picatinny Arsenal Ball Committee. Please RSVP with payment and menu choice by Nov. 18, 2011 to:

Lisa Spinelli

SFAE-AMO-JS

Building 1 Buffington Road

Picatinny Arsenal, NJ 07806-5000

For any questions, contact Spinelli at ext. 9778 or at lisa.spinelli@us.army.mil.

Picatinny Toastmasters an opportunity for personal, professional development

Lucy Kahn, Picatinny Toastmasters

We learn by doing and by having fun in a friendly, supportive atmosphere. Consider the Picatinny Toastmasters Club for personal and professional development.

Our club meets biweekly throughout the year from 11:45 a.m. to 1 p.m. We currently meet in Room 336, on the third floor of Building 93, every first and third Wednesday of the month.

Any club executives would be happy to discuss your needs and expectations, as well as offer suggestions as to how our club can assist in your development.

Please speak with any of us or contact me directly at (973) 724-6437. To learn more about Toastmasters on the web, please visit the Picatinny Toastmasters website at <http://picac2w4.pica.army.mil/pag/toast> and the International website at www.toastmasters.org

The mission of a Toastmasters club is to provide a mutually supportive and positive learning environment.

Prepare early for Teams' Tournament

Teams' Tournament PEPPERS

Although submissions to the Teams' Tournament do not open until March 2012, you are encouraged to start working on your submissions now.

Take a look at one of last year's submissions to get an idea of what is required. Each block has a maximum number of characters and if you go over, the rest of the input is not available to be viewed.

Teams' Tournament is open to all types of teams. Anyone can write up the submission and provide it to the team leader for final submission.

A class on March 7, 2012 will be held from 1:30 p.m. to 2:30 p.m. in Building 12 to review the submission form process and to answer questions. There will also be a judges' seminar the same day from 1 p.m. to 1:30 p.m. to answer their questions and review judging criteria.

If anyone would like to be a judge, please contact the PEPPERS at picapeppers@conus.army.mil or at ext 5915. The judges come from all centers. We would like to get volunteers before going to the directors and asking for their assistance in getting the volunteers.

Visit our Facebook page for updates.

AMC seeks employee Bold Ideas to change way of doing business

AMC Public Affairs

The U.S. Army Materiel Command is soliciting your ideas to become more cost efficient and effective.

Several factors—including a 10-year war—have forced our society and Army to become a more cost-conscious culture.

Your participation in the Bold Ideas Campaign will allow your ideas to reach directly to headquarters and identify processes and programs that can save money and fundamentally change how we do business.

The campaign is designed to rapidly gather bold ideas and provide timely recognition for participants. Continual feedback to contributors will be provided as ideas are evaluated.

Notable ideas will be recognized and receive a letter of endorsement from AMC to participate in the Army Suggestion Program.

From Nov. 2 to Dec. 31, AMC seeks bold ideas for cost effectiveness, changing processes, and becoming more energy efficient.

Join us in shaping our future. Submit your bold ideas to <https://hqamc.aep.army.mil> and click the "Bold Ideas" icon.



NCMA meeting focus on contract funding

Gloria Thoguluva

Martin Kane, a former Picatinny attorney and long-time business manager, will speak about contract funding at the Nov. 17 breakfast meeting of the National Contract Management Association at the Cannon Gate Conference Center.

Kane's talk is titled, Contract Funding - Using the Right "Flavor" of Funds. The meeting starts at 8:30 a.m. and the \$10 fee includes a brunch buffet. At least 20 people must have paid the fee no later than Nov. 10.

One of the thorniest problems in the program management office is ensuring that contracts are funded with the right "flavor" of funds. To avoid funding violations, which can be as serious as an anti-deficiency violation, programs must obligate the right type of funds for the work being performed.

Kane will talk about some of the key issues involved with the various types of funding. He will also explore problems involved with the time period in which each type of funding may be used.

Finally, he will address the appropriate role of the program management office in its relationship with the contracting office.

If you do not work on Picatinny Arsenal and would like to attend, please contact Gloria Thoguluva at 973-724-5366, or at gloria.thoguluva@us.army.mil.

Arrangements will be made through the Visitors Center.

THE PICATINNY VOICE



Picatinny Commanding General
Brig. Gen. Jonathan A. Maddux

Chief, Picatinny
Public Affairs OfficePeter J. Rowland
Editor.....Ed Lopez
Assistant Editor.....Jason Kaneshiro
Public Affairs SpecialistTimothy Rider
Public Affairs SpecialistAudra Calloway
Public Affairs SpecialistEric Kowal
Photographers.....Todd Mozes, Erin Usawicz

Public Affairs Office

Attn: RDAR-AO, The Picatinny Voice,
93 Ramsey Ave., Picatinny, NJ 07806-5000

(973) 724-6366, DSN 880-6366, e-mail picaVOICE@conus.army.mil

This newspaper, The Picatinny Voice, is an authorized publication for members of the Department of Defense, Department of the Army, Picatinny, N.J., and the Joint Munitions and Lethality Life Cycle Management Command, part of the Army Materiel Command. The appearance of advertising in this publication, including inserts or supplements, does not constitute endorsement by the Department of the Army or by North Jersey Community Newspapers of the products or services advertised.

The views and opinions expressed in The Picatinny Voice are not necessarily those of the Department of the Army or the Department of Defense.

Everything advertised in this publication shall be made available for purchase, use or patronage without regard to race, color, religion, gender, national origin, age, marital status, physical handicap, political affiliation or any other nonmerit characteristic of the purchaser, user or patron. If a violation or rejection of this equal-opportunity policy by an advertiser is confirmed, the publisher shall refuse to print advertising from that source until the violation is corrected.

The Picatinny Voice, circulation 5,000 copies, is an unofficial publication authorized by Army Regulation 360-1, created on desktop-publishing equipment. Editorial content is prepared, edited and provided by the Picatinny Public Affairs Office. All photos are U.S. Army unless otherwise stated. The Voice is published by North Jersey Community Newspapers, a private firm in no way connected with the Department of the Army, under exclusive written contract with ARDEC.

For matters about business, advertising and subscriptions, contact the printer, North Jersey Community Newspapers, 100 Commons Way, Rockaway, N.J., 07866 at (973) 586-8195/8197.

Editor's Note

We want your story ideas. To reach us, please contact the editor at the Picatinny Public Affairs Office.

All manuscripts, photos or artwork may not be returned without prior coordination. Digital images should be submitted at a resolution of at least 200 pixels per inch.

Due to space limitations, the editor reserves the right to edit submitted articles. Contributions can be sent by e-mail to picaVOICE@conus.army.mil.

The editorial policy of The Picatinny Voice is to accept letters to the editor and commentaries.

Submissions must be signed or received via e-mail through your own account to be considered for publication, but writer's names may be withheld upon request. Opinions expressed are those of each author and not an official expression of the Department of the Army or the Command.

The PicatinnyVoice reserves the right to select, reject or edit letters and articles to meet space constraints, achieve clarity or for propriety considerations.

<https://www.pica.army.mil/eVoice>

D30 program has multiple benefits

Continued from Page 1

The Soviets brought the D30 to Afghanistan when they occupied the country in the 1980s. Even though the Soviet Army eventually left, their howitzers remained behind.

"The Afghans have been using them ever since, but have not had the resources or training to maintain them, so the howitzers have deteriorated through the years," Espinosa said.

HELP FROM FOREIGN PARTNERS

Picatinny's PM TAS has been tasked with procuring the D30s, overseeing the refurbishing of the howitzers, inspecting them to ensure they are operable and then delivering them to troops in Afghanistan.

To achieve this, PM TAS and ARDEC employees are working closely with Eastern European countries that are familiar with and have access to D30s.

So far PM TAS has procured and delivered 44 D-30 howitzers from the Ukraine, initiated the procurement of 60 weapons from Bosnia i Herzegovina (BiH) and helped the ANA refurbish 17 weapons in their Central Work Shop.

The government BiH donated the 60 howitzers to the program.

"Bosnia has a surplus of weapons and it costs them money to maintain these weapons because they have to store them and make sure they're secure," Espinosa said.

"They donated 60 howitzers whose conditions range from lightly worn to heavily used. So we decided to put the howitzers through a refurbishing program before we turned them over to the Afghan National Army" to ensure consistent quality throughout the fleet.

That refurbishing is being done in BiH with the BiH company UNIS Group serving as the prime contractor that oversees three component factories also within country.

The three factories disassemble the weapons, then refurbish and reassemble the howitzers. If they pass a final inspection conducted by ARDEC employees, they are sent to the Afghan National Army.

The D30 team saved around \$7 million refurbishing the howitzers from BiH.

"We had initial estimates of \$12 million, but by contracting directly with the BiH firm, we were able to bring that down to about \$5.4 million," Gooding said. "So we saved approximately \$7 million by going directly to the firm in BiH."

To mark the first delivery of eight howitzers from BiH, the BiH government held a ceremony at the Sarajevo Airport on July 25 to celebrate the first shipment of howitzers to Afghanistan.

"Today is an important day for military cooperation and partnership," said Patrick S. Moon, the U.S. Ambassador to Bosnia i Herzegovina. "We stand together, as NATO allies and partner nations, in assisting the government of Afghanistan to build its security capabilities."

"I am proud to be here as the first shipment of 60 D30 Howitzers—donated by the government of Bosnia i Herzegovina and refurbished by the U.S. government—is sent to the Afghan National Army. The government of Bosnia i Herzegovina's donation assists Afghanistan to build a modern and well-equipped army capable of ensuring a safe and secure environment for all Afghan citizens."

Gooding said another benefit that has resulted from the D30 program is that the refurbishing contract is helping Bosnia financially recover from its civil war in the 1990s.

"It's amazing to go to BiH and see the remnants of the war everywhere. They're great people to work with and have a strong work ethic, but they're still trying to rebuild and get their economy going again."

PM TAS began delivering the BiH howitzers to the ANA in July, and thus far, 24 have been delivered.

The D30 deliveries will continue over the next three months, with all 104 foreign sourced howitzers expected to be in Afghanistan by December.

In addition, the Afghanistan refurbishing and training facility has been established and the Afghans are showing progress in learning and refurbishing the guns, said Gooding. To date, 17 howitzers



Joe Kurowsky, an ARDEC employee and D30 inspection team cannon expert from Benét Laboratories in Watervliet Arsenal, N.Y., uses a boroscope to examine the interior of the barrel for any cracks or abnormalities at BNT in Novi Travnik, Bosnia and Herzegovina during one of the inspections.

have gone through an overhaul process at the CWS and passed final inspection.

PROGRAM ORIGINS

The program originated in the Program Executive Office Simulation, Training and Instrumentation (PEO STRI) Threat Systems Management Office (TSMO). That organization is based in Redstone Arsenal, Ala.

"The TSMO acquires foreign systems so that the US Army can train against them," explained Espinosa.

"Because of their expertise in dealing with former Soviet entities, they are experienced in contracting with foreign entities and acquiring foreign systems."

But knowing how to acquire systems is different from knowing how those systems work.

So, in 2010, the Lt. Gen. William Phillips, the Principal Military Deputy to the Assistant Secretary of the Army (Acquisition Logistics and Technology), transferred the program to PM TAS (then PM LW155).

PM TAS specializes in towed artillery systems and oversees the U.S. Army's two towed howitzer programs, the M777 and the M119.

"In March 2010, Lieutenant General Phillips said that this program would be

better managed if people with artillery expertise were managing it," said Gooding. "He made the decision to bring the program to our program office and in turn we leveraged the ARDEC expertise in regards to towed howitzers to execute the program."

"It's a good marriage between ARDEC and the PEO because within the project office we're tied in very well with the contracting office at Picatinny and our business manager is very versed in foreign military sales," Gooding explained.

"Then we harnessed the ARDEC technical capabilities in terms of optical fire control, quality engineering, cannon engineering (from Benet Labs) and weapons engineering which were missing when the program was within TSMO."

"The result is an outstanding acquisition team well equipped to execute the mission."

In addition to overseeing the D30 howitzer program, PEO Ammunition's Project Manager Maneuver Ammunition Systems oversees the Non-Standard Ammunition Program.

The Product Director Non-Standard Ammunition provides quality non-standard ammunition and non-standard mortar weapon systems to allied nations and other U.S. customers.

More asymmetric threats predicted, particularly in cyberspace

Army News Service

WASHINGTON -- The nation will demand that the military is engaged in cyber defense of the nation because the military has the greatest capacity and capabilities to do so, said Brig. Gen. John Davis, U.S. Cyber Command at Fort Meade, Md.

"I think the threat [of cyber-attacks] is very real and could potentially be very near-term," he added.

Davis said that today, it's not in the "authority lane" of the military to play that role. Instead, he said, the responsibility lies with the Department of Justice and the FBI, though he said the military is responsible for its own military networks.

"But 90 percent of the military networks reside and ride on commercial infrastructure, so we're concerned about what [an adversary's] cyber activity could do to that commercial infrastructure, because it can have an

adverse impact on the military's ability to do its job," he said.

Davis and other specialists came together at Unified Quest 2012, Oct. 25-28, for a series of annual seminars where members of academia, and U.S. and foreign militaries examine critical issues to current and future force development.

"This is the beginning of our campaign of learning for fiscal year 2012," Lt. Gen. Keith C. Walker, deputy commanding general, futures, and director of Army capabilities integration. "We're going to use what we learn in this session on alternative futures to set the conditions for further seminar war games and experiments."

Highlights from Unified Quest include:

- As the world population grows, increased global competition for finite resources, notably energy and rare earth materials, could fuel regional conflict

- Water is the new oil, and its scarcity will confront regions at an accelerated pace

- Super-empowered individuals will have the capacity for wide-spread influence and the ability to change local and state events

- Tight monetary policy, infrastructure enhancements, and advanced technology investments will set conditions for economic recovery in 2020 to 2028

- The United States will retain relative supremacy, but by a smaller margin, requiring selective strategic choices

- Land power is required for sustainable solutions and to pursue national interests

- Dynamic changes in the Islamic world will continue "This symposium is about plausible strategic landscapes," said Col. Kevin Felix, director of the Army's Future Warfare Division. "We may be facing more asymmetric threats, in the cyber environment in particular."

CROWS gets industry close-up at Picatinny

BY KEVIN DOELL

PEO Soldier Public Affairs

Picatinny Arsenal opened its "Cannon Gate" on Oct. 6 to host an industry day for the upcoming M153 Common Remotely Operated Weapons Station (CROWS) competition.

The CROWS is a turret system that provides Soldiers the ability to employ cameras, sensors, and weapons from inside the protection of an armored vehicle.

The CROWS platform provides significant capability to the Army's Brigade Combat Teams operating in Iraq and Afghanistan.

Demand for additional systems continues to grow. Project Manager Soldier Weapons is in the process of conducting its third CROWS contract competition to procure an additional 3,000 new CROWS along with the engineering and maintenance services needed to reset the existing fleet of more than 8,000 fielded CROWS.

"More than 50 companies attended our pre-solicitation conference," said Lt. Col. Thomas Ryan, Product Manager Crew Served Weapons.

"We were able to engage attendees with technical discussions, hands-on system displays, and a question and answer session. We will incorporate feedback gained from the event as we put the finishing touches on our final request for proposal document, which should come out later this year."

Pre-solicitation conferences provide private industry with critical insights into the needs of the Army. Often, the needs are complex.

INDUSTRY ANSWERS POSTED TO WEBSITE

The more closely industry and the Army can partner early on in the acquisitions cycle, the better the ultimate outcome will be for the Soldier.

For example, the Army's CROWS team fielded nearly 100 questions at the conference and was able to provide



Spc. Tommy Rutmag prepares the Common Remotely Operated Weapon Station (CROWS) before going on a convoy at Kandahar Airfield, Afghanistan. Army photo

answers to more than 85 questions immediately.

All answers to industry questions are ultimately posted on the FedBizOps.gov website. This type of information exchange helps industry prepare to compete for programs that make a critical difference to the Soldier.

"Our industry partnerships make all the difference," said Art Fiorellini, Division Chief, Remote Weapon Systems Division.

"CROWS turns area weapons like the M2 machine gun into on-the-move precision engagement systems. It does this while reducing Soldier exposure to direct enemy fire, IEDs and the threat of rollover.

"Working with industry helps us put such advanced capability into the hands of Soldiers to help them accomplish their mission and come home safe."

CROWS solicitation information is available on Fedbizops.gov under W15QKN-11-R-F015.

A contract award is anticipated a year after closing of the final request for proposal.

Looking Back ... At Picatinny



BY PATRICK J. OWENS

ARDEC Historian

The recent World Series inspired a desire to ponder the history of Picatinny baseball.

Picatinny formed its Twilight League in 1931.

The accompanying photo, showing the winning team of the second season, comes courtesy Martin Kane.

In addition to being business manager for PM-Towed Artillery Systems and coach of the Stealers in the arsenal softball league, he has written about the league's history for this newspaper.

The 1932 season involved six teams who played a total of 46 games on a leased field in Wharton. It ended on August 22, and the championship was in doubt almost until the end. Metal Components only clinched the title on August 19. Note the team members lack a common uniform. Most appear to wear uniforms from their days on other teams. The man in tie and shirtsleeves is team manager Anthony Vough.



Make Yourself at Home®

HOMESWOOD SUITES BY HILTON® DOVER/ROCKAWAY

2 Commerce Center Drive • Dover, NJ 07801

973-989-8899 • Fax: 973-989-8898

doverrockaway.homewoodsuites.com

~Hilton HHonors Earning Points & Miles~

GOVERNMENT EMPLOYEES: STRETCH YOUR PER DIEM DOLLARS AND FEEL AT HOME!

Amenities:

-  Spacious Studio, 1 Bedroom and 2 Bedroom Suites Available
-  Fully equipped Kitchens w/microwave, range top stove & refrigerator
-  Complimentary wireless/wired high-speed Internet access in all suites
-  Complimentary Suite Start™ Hot Breakfast buffet served each morning
-  Complimentary Welcome Home® Reception served Monday through Thursday
-  24-hour convenience shop and grocery shopping service available
-  Indoor heated swimming pool & On-Site Fitness Center and Outdoor Sports Court
-  Minutes away from Dover Train Station
-  Off of I-80 Heading West: Exit 35A • Heading East: Exit 35

NOW OPEN!

Your Perfect Second Home.®



A man in a black long-sleeved shirt and black shorts is running up a large set of white stairs in a stadium. The stairs are made of concrete and have black metal railings. The man is seen from behind, and his shadow is cast on the stairs. The background is a light-colored wall.**NORTHROP GRUMMAN**

**MISSION
SUCCESS
COMES FROM
BEING PREPARED.**

www.northropgrumman.com/ngats

©2011 Northrop Grumman Corporation

- ▼ **NEXT GENERATION AUTOMATIC TEST STATION (NGATS)** is designed for tomorrow's warfighters, but available today. Built on an open, scalable and net-centric architecture, Northrop Grumman's NGATS was developed through our strong partnership with the Army, to ensure that when soldiers go to battle, their equipment is as prepared as they are.

New light machine gun aims to 'SAW' Soldiers' load

What effect would a prototype light weight machine gun and its distinctive ammunition have on Soldier effectiveness in battle?

A series of grueling, grinding tests under battlefield conditions set out to answer that question.

Story and Photos by Eric Kowal

FORT BENNING, Ga. -- Nearly 20 Soldiers participated in a two-week assessment of a prototype light machine gun to demonstrate its potential impact on mission effectiveness and to help engineers develop possible improvements to the weapon and its unique ammunition.

The evaluation sought the warfighter's perspective after enduring a series of strenuous combat performance drills with the weapon.

It had taken six years to get from a concept to a fully functioning weapon that was ready for evaluation, but Kori Phillips, a Project Management Engineer in the Joint Service Small Arms Program (JSSAP), said it was well worth the wait.

"This is exactly what we have been waiting for," said Phillips. "This is what we need to move forward."

The Soldiers' feedback will be used to influence the user community to develop a Capability Development Document (CDD). A CDD is required before the system can transition to a program of record and enter the Engineering and Manufacturing Development phase of the acquisition life cycle.

This would be the next step needed for the program to move forward toward an eventual fielding of the weapon to Soldiers in the field.

The light machine gun is part of the Lightweight Small Arms Technologies (LSAT) program, which is managed by the JSSAP, part of the Army's Armament Research, Development and Engineering Center at Picatinny Arsenal.

The LMG is a gas-operated, cased telescoped light machine gun. It is air-

cooled and belt fed with selectable semi-automatic and fully automatic fire and fires from the open-bolt position. Its rate of fire is approximately 650 rounds per minute.

The JSSAP team hopes that the LMG will eventually replace the M249 Squad Automatic Weapon (SAW) as the standard issue machine gun used by Soldiers in combat zones.

GETTING TO KNOW THE WEAPON

The machine guns and their operators were tested through automatic rifleman tasks and operational scenarios.

The purpose was to assess how the lighter machine gun affects the Soldiers' ability to effectively engage targets from various firing positions after completing tasks that induced physical stress and an

elevated heart rate.

The weapons were also evaluated on their suitability regarding portability, safety, compatibility with Soldier equipment, durability in challenging environments, ease of use, and impact on Soldier mobility.

"We ran Soldiers through with both weapon systems and timed them to look at how much faster they could complete the course with the lighter weapon and to gain subjective feedback on mobility and portability issues while they negotiated the obstacles," said Maj. Matthew Bowler, a military advisor to the small arms program.

Immediately after each event, the Soldiers filled out surveys where they offered opinions about how they felt physically, and any issues or malfunctions they ex-



Spc. Timo Swaner engages a close range target with the light machine during a military unit assessment at Fort Benning, Ga., last month.



A Soldier is fatigued after marching six miles in full combat gear with body armor, a 50-pound rucksack and a basic load of ammunition for his weapon. On this day, he also carried the heavier weapon, the M249 SAW.



Spc. Brandon Smith holds the light machine gun in the air.

With a basic load of 1,000 rounds, the LMG and its cased telescoped ammunition is 20.4 pounds lighter than a traditional SAW.



To view a video of the assessment described in this article, point your web browser to the links at the end of this story.



perienced with either weapon or its ammunition. They could also include any positive feedback.

On the first day of the second week, the Soldiers marched six miles in full combat gear, including body armor, a 50-pound rucksack and a basic load of ammunition for their respective weapons. Half the Soldiers carried the SAW and the other half carried the LMG.

After the road march, the Soldiers immediately started firing their weapons to measure the effects of muscle fatigue and stress while firing.

Sgt. Brandon Vega, an infantryman with the 2/29 Infantry Battalion, saw an increase in his accuracy when firing the LSAT after the march compared to the SAW.

"The first six round bursts were within the size of a quarter," Vega said. "Then I got three on top of one so I was real impressed with that."

Vega added that, using the SAW, he has yet to achieve the same level of accuracy.

According to a study conducted in 2005, the average fighting load for the SAW gunner is 79 pounds. That is nearly twice the weight a Soldier should carry, according to Army doctrine.

"The Soldier carries too much weight so anything we can do to reduce Soldier load increases the Soldier's effectiveness, his capability on the battlefield and his



survivability," said Bowler.

The weight reduction provided by the LMG would have a significant effect on the SAW gunner, the most heavily burdened Soldier in the squad.

With a basic load of 1,000 rounds, the light machine gun and its cased telescoped ammunition is 20.4 pounds lighter than a traditional SAW with the same amount of standard, brass-cased ammunition.

During the assessment, more than 25,000 rounds were fired from eight prototype LMGs.

The suggested rate of fire for machine guns is three to five round bursts whenever possible, eight to ten round bursts at the most. This gives the gunner time to readjust his aim and helps keep the barrel from overheating as quickly.

A high rate of fire increases the possibility of a "cook off." Cook off occurs when the propellant is unintentionally ignited by the heat in the weapon chamber, firing a round unexpectedly and causing a significant safety hazard.

Because of the design of the chamber, the LMG is very unlikely to experience a cook off, Phillips said. Technical tests showed that more



than 250 rounds could be fired without a risk of cook off. The M249 SAW has been known to cook off at 220 rounds under certain circumstances.

OTHER ASSESSMENTS

In another assessment of shooting while under physical stress, Soldiers wore body armor and sprinted 200 yards with their weapons and a basic load of ammunition, then rapidly engaged close-range targets from the standing position. Again, they performed this task with both weapons. Many Soldiers saw an improvement in their overall time with the lighter weapon.

"Today we ran with the LSAT and with the SAW," said Cpl. Nickolaus Hammack, one of the military police Soldiers participating in the assessment. "Both were pretty trying but the SAW hands down is way heavier."

"Especially going up a hill, you feel the weight on you," he added. "LSAT is a lot lighter weapon. It really is a joy to have."

The third week of assessment involved Soldiers of the 75th Ranger Regiment. They used two of the LMGs as part of a squad maneuver live-fire exercise to determine how the attributes of the new weapon system would impact squad effectiveness.

The exercise was conducted in an urban setting where the Soldiers used the weapon for suppressive fire and for room-clearing.

The Rangers said they liked the semi-auto feature that made the LMG a much more viable weapon for room-clearing than the SAW.

Additionally, one Ranger commented that the weight of the LMG as a system was "noticeably better" than that of the Mk 46 variant of the SAW that they currently use because of the significantly lighter ammunition that dramatically in-



Sgt. Brandon Vega pumps his fist in excitement after successfully grouping three shots within the size of a quarter with the light machine gun.

creased his mobility while maneuvering as part of the squad.

FUTURE OF THE LIGHT MACHINE GUN

Overall, the Soldiers' comments were positive and they overwhelmingly preferred the LMG to the SAW. They were impressed by the weapon's light weight, decreased felt recoil, and related increase in accuracy and better control.

The Soldiers' input could lead to design changes to any final product.

However, no decision has been made on whether the LMG will eventually be fielded.

Spc. Brandon Smith, an infantryman, spent two weeks comparing the weapons.

"I could see a whole squad carrying it (the LMG)," he said. "You would own the battlefield."

To view video of the assessment and prior videos on the LMG on the Picatinny Arsenal YouTube channel, follow this link: <http://www.youtube.com/user/PicatinnyArsenal>. Or, <http://www.army.mil/article/67917/>



Above and left, using an urban battle environment to assess weapons.



Photo by Todd Mozes

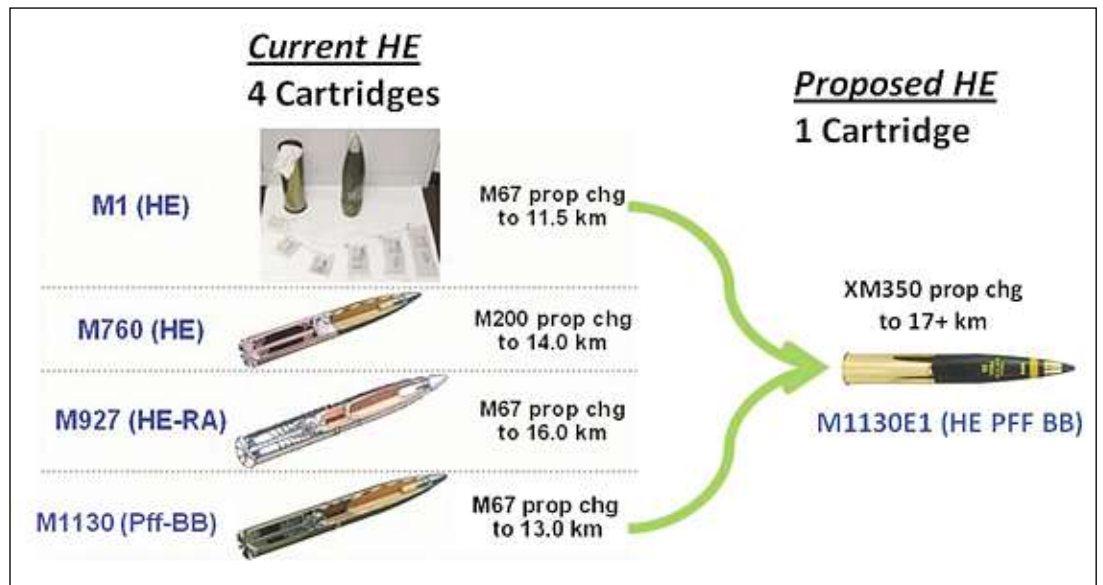
Patrick J. Owens
ARDEC Historian

On Saturday, Oct. 22, local residents visited the Walton Burial Ground, the cemetery near the Mount Hope Gate.

Jason Huggan, the arsenal's cultural resource manager, arranged three tours as part of the Spirit of History Day organized by the Historical Society of Rockaway Township. In the photo above, he shows visitors the gravestone for Susan Walton, who died at age 16 in 1815.

The day's other events took place at the Ford-Faesch House in Mount Hope. In addition to the house, John Jacob Faesch owned the iron forge that operated during the Revolutionary War near the present site of the Lake Picatinny Dam.

Those believed interned at the burial ground between the 1780s and about 1850 include members of such local families as the Waltons and the Dolands, Revolutionary War veterans, and employees of Faesch's iron works.



A new artillery round combines the capabilities of other current rounds, which is expected to reduce the logistics burden by 50 to 75 percent.

New ammunition combines four artillery cartridges into one

AUDRA CALLOWAY
Picatinny Public Affairs

The Program Executive Office for Ammunition has started testing a new artillery round that will provide Soldiers with superior performance as well as lighten the military logistics burden.

The 105mm M1130E1 High Explosive Pre-Formed Fragments, Base Bleed (HE PFF BB) round with the XM350 propelling charge, is a state-of-the-art cartridge that replaces four existing High Explosive (HE) projectiles and two propelling charges with a single round.

The M1130E1 is fired from the M119 howitzer and will be used against light to medium targets, such as personnel and trucks.

It provides increased combat effectiveness for all 105mm Howitzer units, but will specifically aid the mission of the light forces operating in rugged terrain, such as Afghanistan.

A 105mm cartridge consists of a projectile, cartridge case, primer and propelling charge.

Currently, four different 105mm cartridges (the M1, M760, M927 and M1130), each containing one of two propelling charges (M67 and M200), are needed to engage the various targets at distances from 1.4 kilometers out to 16 kilometers, explained Jim Rutkowski, Chief of the Energetics Branch with PEO Ammunition's Project Manager for Combat Ammunition Systems (PM CAS).

Currently, all four rounds must be available at the firing position. For instance, the M760 cannot cover the closer ranges that the M1 covers.

"Until we field sufficient quantities of M1130A1 the logistic chain and our troops will deal with the four cartridges—M1, M760, M927 and M1130," Rutkowski added.

"After that, the logistic chain and the Soldier will only have to deal with one high explosive cartridge, the M1130A1."

By eliminating the need to have adequate supplies of four different artillery rounds on hand, Rutkowski said expectations are that the M1130E1 with the XM350 charge will reduce the logistics burden by 50 to 75 percent.

HOW IT WORKS

The M1130E1 combines the M1130 projectile with the XM350 propelling so that one projectile and propelling charge can cover all these ranges,

plus additional range of out to 17 kilometers.

The XM350 propelling charge is designed by the U.S. Army Armament Research, Development and Engineering Center (ARDEC) at Picatinny Arsenal, and St. Marks Powder, a General Dynamics Ordnance and Tactical Systems company at St. Marks Fla.

It takes advantage of the state-of-the-art St. Marks Powder's high performance, low flame temperature "hybrid" propellant, which allows it to cover the minimum to maximum range requirements of both the M67 and the M200 propelling charges with a single, zoned, propelling charge.

In addition to significantly reducing the logistics burden of troops, the M1130 projectile also uses a reliable base bleed with a more aerodynamic shape to achieve similar ranges without sacrificing down-range performance.

The M1130 cartridge has shown a two to four times improved capability over the M1 HE round against select targets because the warhead has better fragmentation distribution.

The M1130E1 began testing at Yuma Proving Grounds, Ariz., this summer.

When corrected to ICAO (International Civil Aviation Organization) standard conditions (59°F, 14.7 psi, no wind), the M1130E1 cartridge demonstrated an average range of 17.8 km at top zone.

The Army is currently scheduled to "materiel release" the M1130 with the M67 propelling charge in early 2012 with integration of the M1130E1 with the XM350 propelling charge to follow.

A materiel release means that the item is safe for Soldiers to use; is suitable; has been fully tested to meet operational performance requirements; and can be supported logistically in the environment in which it is intended for use.

Upon completion of the M1130E1 qualification, the round will be fielded as the M1130A1 cartridge with the M350 propelling charge.

PM CAS has life-cycle responsibility for all 105mm ammunition.

The XM350 propelling charge development is being performed by ARDEC.

ARDEC also handles the integration of the cartridge case, primer, propelling charge and projectile into the M1130E1 cartridge.

General Dynamics Ordnance and Tactical Systems is the prime contractor for the projectile.

0003129397-01

HOUSE FOR SALE



**504 Brooklyn Mtn. Rd
Hopatcong, NJ
\$189,999
20 Minutes to Picatinny**

2 Bedroom, 1 Full Bath. Newly refinished Kitchen. Pergo flooring upstairs, new carpet downstairs. Newly refinished Bathroom. House comes with big screen TV, wood stove (not connected), refrigerator, kitchen stove, washer and dryer. The house has plenty of closet space and attic for additional storage. Trouble free city water/sewer. 3 Parking spaces. Newly constructed shed with electric. Tax \$4,119

CALL JAMES @ 973-539-0914



Alice's
Restaurant • Bar • Events • Catering

LET'S GET THIS PARTY STARTED

Call to set up your special event or holiday party now!

24 Nolan's Point Park Rd.
Lake Hopatcong • 973-663-9600
www.alicesrestaurantnj.com

0003169073-01

BRAC brings Navy back to Picatinny with new facilities

U.S. Navy officials held a ribbon-cutting ceremony Oct. 18 to mark the official opening of six new naval facilities built here as a result of the Defense Department's 2005 Base Realignment and Closure (BRAC) directive.

BRAC 2005 called for creation of an integrated weapons and armaments specialty site for guns and ammunition at Picatinny Arsenal.

The Naval Surface Warfare Center, Indian Head Division's Picatinny detachment includes three primary functions; ammunition engineering, gun systems in-service engineering, and packaging, handling, storage, and transportation (PHS&T) test and engineering.

Five of the six facilities built for the Navy are new, including the PHS&T and the Guns and Weapons Turret facilities. The Guns and Weapons Technical Data facility is located in a completely renovated building.

The facilities currently are occupied by 240 Navy employees. These positions were transferred here from Earle Naval Weapons Station in Colts Neck, N.J., the Naval Surface Warfare Center Indian Head Division's Louisville Detachment, in Louisville, Ky., the Naval Surface Warfare Center Crane, Ind., and the Naval Air Warfare Center, China Lake, Calif.

Vice Adm. Kevin McCoy, commander of Naval Sea Systems Command, hosted the ceremony and told the nearly 200 people in attendance that he too knows what it likes to be subject to BRAC.

He noted that that he was often away from his family for months, sometimes driving as many as

400 to 500 miles a weekend to see them only for a few hours.

"I really, deeply appreciate your being willing to serve," McCoy told the audience.

The Army Corps of Engineers New York District oversaw the construction projects. The ribbon-cutting marked the return of the Navy after a 50-year absence from the Arsenal.



Above, Vice Adm. Kevin McCoy examines a cargo net used to transfer supplies and ordnance between ships. Below, turrets atop the Guns and Weapons Turret Facility will allow engineers to duplicate any problems that might arise on ships.



Stealers roast War Pigs for championship

BY MARTIN KANE

The Picatinny Softball League concluded the first week of October with the Stealers defeating the War Pigs for the Division A championship and DPW defeating Team Unclassified in the Division B championship.

This was the first year of the two-division format and a record 20 teams participated in the softball league. Congratulations to AJ Agnor and the MWR team battling the weather and producing an extremely successful season.

For the Stealers, it marked their 10th Picatinny championship since entering league play in the mid 1980s. Coached by Joe Stanilious and Marty Kane, the Stealers had a 12-3 regular season record and then advanced through the playoffs with wins over the Empty Pitchers and Your Mom's on First.

The best out of three championship series pitted the same two teams as 2007. The Stealers avenged their 2007 loss to the War Pigs by sweeping the two-game series. On the way to the finals, the War Pigs defeated long-time foe, the Ball Busters, and upset the heavily favored Alpha Betas, which had the best record during the regular season.

The first game of the championship series saw the Stealers

tie the game in the bottom of the 7th with a hit by Samir Saba and end the game moments later with a walk-off single by Phil Gorman.

The Stealers offense was also paced by Chris Schwartz, Mike DeMaria, Darryl Hill, Nick Pavia, Dom Nicolichia, Jose Roman, Theo Hawranick, Joe Stanilious and Fran Figueroa with Al Aprea, Mike Brown and Chris Turel making strong contributions.

Tommy Skokos stepped in to pitch both games in the championship series to bring the Stealers their third championship in

four years.

The Stealers are an example of what makes the softball league at Picatinny special. Comprised of players from all over the installation with a wide variation of age, it provides the Picatinny community a great outlet to socialize and compete.

The team still boasts two original members—Phil Gorman and Marty Kane—who were playing before some of today's members were born.

Congratulations to all teams on a great season and look forward to seeing you out there next season.



Army Chief of Staff Gen. Raymond T. Odierno presents a Bronze Star Medal on Nov. 1 to George Joe Sakato at the World War II Nisei Veterans Program National Veterans Network tribute to the 100th Infantry Battalion, 442nd Regimental Combat Team and Military Intelligence Service in Washington, D.C. Sakato is a Medal of Honor recipient and a Japanese-American World War II veteran. Army photo

Under New Ownership

Under New Management

Minuteman II Limousine and Car Service

973-252-7662 • Toll Free 888-767-7662

Transportation to all major Airports

JFK, LaGuardia, Newark, Teterboro, White Plains, Morristown and more!

New Vehicles added to our Fleet: 6, 8, 10 Passenger Stretches

• 14 Passenger Ford Excursion SUV • 15 Passenger Van
All current vehicles will be upgraded to newer models

Our drivers and our vehicles are registered to service Picatinny Arsenal

COMPUTERIZED DISPATCHING

Account information kept on file, emailed confirmations and/or receipts, previous reservations looked up and
coming soon...Online reservations



Fully Insured

All Major Credit Cards Accepted

0002990184-01

- Weddings • Proms
 - Nights on the town
 - Trips to NYC • Theaters
 - Sporting Events
 - Long Distance Trips
- AND MORE**



FREE
Skin Cancer
Screening
with this ad.

Good only for
first-time patients.

4 Locations

Worried about that mole?

Get a **FREE** Full Body Checkup Today...

Early Detection is Everything!



**North Jersey
Dermatology Center, P.C.**

Skin Cancer Specialists

Joseph M. Masessa, M.D., F.A.A.D.

Board Certified in Dermatology

www.MySkinDoc.com

- MOHS Skin Cancer Surgery
- Reconstructive Surgery
- General & Cosmetic Dermatology

CALL TODAY!

We accept Medicare and participate with most insurance companies.

Se habla español.

7 Oak Ridge Road, Newfoundland, NJ 07435 Phone: 973-208-8110
35 Green Pond Road, Rockaway, NJ 07866 Phone: 973-625-0600
1116 Route 46, Parsippany, NJ 07054 Phone: 973-917-3700
925 Clifton Avenue, Suite 207, Clifton, NJ 07013 Phone: 973-955-4800

Visual impairment can result from multiple causes, conditions

MARCI KECK

Army Community Service

Total blindness is the inability to tell light from dark, or the total inability to see.

Visual impairment, or low vision, is a severe reduction in vision that cannot be corrected with standard glasses or contact lenses and reduces a person's ability to function at certain, or all, tasks.

Legal blindness refers to a best-corrected central vision of 20/200 or worse in the better eye or a visual acuity of better than 20/200.

The World Health Organization defines impaired vision in five categories:

- Low vision 1 is a best corrected visual acuity of 20/70.
- Low vision 2 starts at 20/200.
- Blindness 3 is below 20/400.
- Blindness 4 is worse than 5/300
- Blindness 5 is no light per-



ception at all.

The leading causes of blindness include macular degeneration, glaucoma, cataracts and diabetes

Other possible causes include infections, injury, or nutrition.

Children with visual impairments should be assessed early to benefit from early intervention programs, when applicable.

Computers and low-vision optical and video aids enable many partially sighted, low-vision and blind children to participate in regular class activities.

The law also requires that

The leading causes of blindness include macular degeneration, glaucoma, cataracts and diabetes. Other possible causes include infections, injury, or nutrition.

schools provide accessible instructional materials to all students who need them—this can include large print materials, books on tape/CD, and Braille books.

For more information about Visual Impairments visit <http://www.lighthouse.org> and <http://www.pica.army.mil/mwr/ACS/EFMP.htm>. You can also contact the EFMP Manager, Marci Keck, at 973-724-2145 or marci.keck@us.army.mil.



Webster briefed on ARDEC activities

Keith Webster, center, the Deputy Assistant Secretary of the Army for Defense Exports and Cooperation, speaks with Dr. Gerardo Melendez, left, the director of the Armament Research, Development and Engineering Center (ARDEC). Webster was here Oct. 20-21 for an update on international programs and research activities. At far right is Lu Ting, the head of ARDEC's international office.

More than 30 people from various ARDEC organizations with international responsibilities introduced themselves to Webster.

They talked about the nations they are working with, their current events, major accomplishments and upcoming plans, providing him a picture of ARDEC's wide-ranging mission.

Discussions touched on what exchanges are being conducted between ARDEC and coalition partners, including efforts to provide technologies that ARDEC is developing.

Among the issues discussed were the use of technology to improve safety, reliability, logistics, as well as co-production efforts and interchangeability between small- and large-caliber weapons as well as munitions.

Several ARDEC organizations discussed ongoing initiatives to produce standardization agreements with NATO.

In discussions with nations, ARDEC determines what is needed from a coalition partner, if there is capability gap, and how to close that gap.

The secretary discussed how he intends to better align our international engagements with our national strategy.

Often, the process has been about providing technologies to coalition partners, but increasingly, technologically strong nations like the Republic of Korea have technologies that could improve our capabilities.

—Timothy Rider

Amy's Barber Shop

Amy Cascelli
Owner / Master Barber

5 North Main Street
Wharton, New Jersey 07885
973-328-9208

No appointment necessary www.amysbarbershop.com

The Program Executive Office for Ammunition now has its own Facebook and Twitter sites.

The Picatinny Public Affairs Office invites you to friend PEO Ammo, ask questions, leave comments and interact via our social media sites at:

<http://www.facebook.com/peo-ammunition>

<http://twitter.com/peoammunition>

Bring This Coupon with your I.D.!

All our Active and Retired Servicemen

Get Their Hair Cut for ONLY \$10

during the Whole Month of November

Children's fishing contest results

MIKE TUTKO, CHAIRMAN

National Hunting and Fishing Day

Earlier this year, 37 children attended the annual children's fishing contest at the north basin, sponsored by the Picatinny Rod and Gun Association and the Civilian Welfare Council.

Prizes were awarded to the children in three age groups. The 6 and under group was won by Ethan Gerhard, 3 1/2 years old from Rahway, 1.10 pounds.

The 7-11 group was lead by Brenden Kelly, 9 years old from Kinnelon, .80 pounds, followed by Daniel Coscia, 11 years old from West Milford, .77 pounds, and Chloe Rayer, 9 years old from Lake Hopatcong, .71 pounds.

In the 12-15 age group, Yunlya Tarven, 14 years old from Morris Township, .84 pounds, took the honors.

Winners received rod and reel combinations, tackle boxes, nets and lures. Each child who participated received a small prize.

In addition to the trout contest, the children learned safe handling of firearms from Chuck Horvath using pellet guns. Art Reimer and members of the Dover Sportsmen's Club provided bow and arrow safety instruction on the archery target range.

Richard McDaniels displayed a collection of black powder primitive weapons. Al Wagnecz demonstrated fly-tying techniques.

Again this year, John Rogalo's Labrador Retriever (Dory) demonstrated waterfowl retrieving techniques.

Thanks to everyone who helped prepare the pond for stocking and who prepared lunch and dinner, and to all sponsors and volunteers. Without them, this annual event would not have been possible.

Our Customers Are Strangers But Once

Townsquare Restaurant And Diner

320 Route 15 South, Wharton
Now with Easy Access to Rt 15 North
973-366-7244
Open 7 Days
Bakery On Premises • Take-Out Available
Sun.-Thurs. 5AM-1AM • Fri. & Sat till 2AM
(1 Mile South of Picatinny Main Gate)

FOR PICATINNY EMPLOYEES
10% OFF
Your Total Bill
One Coupon Per Table. No Substitutions.
Coupons May Not Be Combined With Any Other Offers. Exp. 8/31/11

SERVICES

HOME: Carpentry/Constr

All Repairs Bth Bsmt

Kits, Decks, Add'ns Lic #13VH02328000
Call Louie 973-927-9523 / 973-479-0377

★RENKEN

CONSTRUCTION ALL Phases Remodeling
25 Yrs Exp Fully Insured 973-586-8700

HOME: Carpet

RUG DOCTOR

- PROFESSIONAL CLEANING
- HAND WASHING
- RESTORATION & APPRAISAL OF ORIENTAL RUGS

30 Yrs Exp. in Oriental Rugs

201-716-9971

RUG DOCTOR

HOME: Cleaning

Anna's House Cleaning Srvc
Dependable Refs Free Est 973-588-7065

A POLISH CLEANING

Clean homes, offices, laundry, Insured.
973-390-2810. www.jannascleaning.com

JUST CLEANING 973-823-1194
Why don't you give me a call! Grace

HOME: Clean Up & Hauling

IT'S TIME!

To get rid of your unwanted furniture and household items. We clean out and haul away anything from your attic, basement, garage, etc.

Call Chicelo at
973-228-7928
or **973-325-2713**

GET A DUMPSTER

10-20-30 YARD DUMPSTERS
Great rates...call NOW! 1-800-889-9808

RICK'S CLEANOUTS

Junk removal, demo, cheap dumpster
10,15,20 cu yds FREE metal dumpsters.
973.340.7454

HOME: Decks

TheDeckMedic.com
Wash,Seal,Repair Free Est.1-888-706-3342

HOME: Driveways

Asphalt Maintenance Inc.

Driveways & Parking Lots
Paving • Sealing • Patches
Pavers • Curbs • Retaining Walls
FREE EST • RESID/COMM
973-299-9226

HOME: Electrical

Arnco Electric, LLC

Residential/Commercial/Industrial

Fully Insured/Bonded. Reasonable Rates.
Lic #16458. Call Chris
973-784-3720

SK ELECTRICAL

No Job Too Small
We take pride in our work
973-989-1119 Lic# 7074A Randolph

KB Electric. lic 11421

Calls ansrd immed -10%OFF! 973.800.5511

HOME: Firewood

Markovski Landscaping & Tree Service

Seasoned Firewood Delivered
All types of Tree Removal & Pruning
"LEAF CLEAN-UPS"
Please call us at **973-627-4161**

HOME: Flooring

ABOVE ALL FLOORS
Refinish, Install, Stain, Repair, PolyCoat,
Pwrwsh, Deck Finish, Int Painting. Fully
Ins/Free Est, Immed Svc. 201-376-3820

HOME: Gutters

Gutters
Cleaned & Flushed
Repairs & Installation • Screening
Tree Trimming & Removal
Bill's Gutter Service
973-226-2840

Brett's Local Gutter Cleaning
Screen'g, Repairs.free est/Ins 973.663.9114

GUTTER CLEANING

973-979-3166

HOME: Handyperson

TOM D'S HANDYMAN SERVICE
Maintenance • Repair
Building • Remodeling
No Job Too Small or Big! • 25 Years Exp.
973-632-6411

HANDYMAN: DECKS

crpntry, pwrwash, repair wndws & drs.
Ref's.Free Est.Reas rates! 973-570-3632

HANDYMAN RICK

Carpentry, Painting, Repairs. No job too srr
Fully Insured. 34 yrs experience.
Lic. 13VH00777100. 973-610-6585

HOME: Home Improvements

J.B. HOME IMPROVEMENT

Kitchens • Baths • Painting • Siding • Flooring
Roofing & Stucco • Additions • Decks • Windows • More
NO JOB TOO BIG OR TOO SMALL!
Inexpensive, Honest, Loving Care
973-704-1915 or
email: Jbhomimprovement@aol.com
13VH02274500

...and we do it ALL!

Kitchens, Baths, Basements, Decks,
Additions, more! New construction.
Financing available. 973-219-1103 or
973-479-5501 NJ Lic #13VH00964700

Card & Son Constr

Roofs, windows, doors, repairs 973.699.1427

Sam the Furniture

Finisher. Touch Up & Repairs, Done in
Your Home. Chairs Reglued. 973-839-6698

Storm Rpr Specialist

If you've been affected by the storms
& need help-call your one-stop-shop
General Contractor at Restoration &
Decorating. 973-625-7207. BBB

HOME: Landscape

LEAF REMOVAL & CLEANUPS

SR DISCOUNTS CALL RICK 973-714-4646

ALEXANDER'S

Landscape & Tree Service
Fall Cleanups • Brick Pavers • Retaining Walls
Tree Trimming • Tree Removal
Stump Grinding • Storm Damage
SNOWPLOWING
Lic #13VH03921300 **973-422-4152**

BANTA LANDSCAPING

Brick Pavers • Rock Walls • Top Soil
Lawn Maintenance • Synthetic Putting Greens
Mulching • Plantings
Landscape Design & Construction
FULLY INSURED - ESTIMATES AVAILABLE
973-316-9575

BEDNAR LANDSCAPE SERVICES

- Complete Property Maintenance
 - Landscape Design
 - Brick Pavers
 - Retaining Walls
 - Drainage, Etc.
- Lic#13VH03084900
973-299-1356

DK LANDSCAPING

FALL CLEANUPS & LAWNS
25 YRS EXP. **973-464-3661**

Garden State Landsc

Lawn Maint/Design, Pavers, Stone Wall
Cleanups #13VH04146300 973-227-646

ROMAINE LANDSCAPING

FALL CLEAN UPS & LEAF REMOVAL
973-328-0702

HOME: Masonry

Excelsior Masonry & Paving

All Types Stone Masonry & Repairs
Montville NJ. 973-418-5705/ 732-295-0795

NI MASONRY LLC

Pavers, Stucco, Found'tns, Bricks, Blocks
Retaining Walls, Walkways, Steps, Etc.
Ins, Free Ests 973-341-6603/973-641-0494

HOME: Paint & Paper

AL LEVIN PAINTING

Specializing in: Int./Ext., Brush & Roll, Carpentry &
Deck Restoration, Power Washing & Paper Hanging
973-625-9379
Fully Insured • Honest & Reliable
Lic #13VH00605000

ALPINE PAINTING & MAINT. INC.

FREE SMILES & ESTIMATES!
Int/Ext. • Wallpaper Removal
Powerwashing • Deck Stain
Fully Insured • 25+ years exp.
973-627-4817
Lic# 13VH05920200

Denny Wiedman Painting & Decks

3rd Generation • Lic#13VH05142800
Serving Morris County for 25 Years

Interior-Exterior / Powerwashing
FULLY INSURED - FREE ESTIMATES
973-627-1509

GALLAGHER'S

Painting • Papering
Powerwashing
973-586-3284

Jim Yacco

Painting • Paperhanging
Commercial • Residential
Interior • Exterior
Powerwashing • Airless spraying
Free Estimate/Fully Insured
Lic # 13VH03225000
973-770-8104

K&B PAINTING

INTERIOR - EXTERIOR
Staining • Decks Powerwashing
Water Damage Restoration
Carpentry • Fully Insured
Lic # 13VH01647600
973-426-0598 CELL **973-229-9819**

Lou Albano Paint &

Paper, Ints 13VH02154200 973-872-5358

Ski's Ptg & Reno.LLC

Int/Ext Paint'g, wall/faux fin, mouldings,
ceramic tile & much more. 973-663-6120

HOME: Pet Services

ADOPT A PET & be

Loved Forever! Lakeland Animal Haven,
29 Pine St. Kenil has lovely adult Dogs,
Cats, Kittens available to responsible
homes. Call for appt. 973-584-1415.

HOME: Plumbing

R.J. Bell Plumbing & Heating

Bathroom Renovations & Tile
Air Conditioning Serv. + Installation
Oil Tank Removal + Installation
COMPETITIVE RATES
Fully Insured • Free Estimates
30 years Exp. **973-586-4436** NJ Lic #9348

THOMAS BIONDI JR.

Plumbing & Heating

PROMPT, PROFESSIONAL SERVICE

• BOILER SERVICE • DRAIN CLEANING
• RADIANT HEAT • FIXTURE REPAIR
• HOT WATER & • REPLACEMENT
STEAM • WATER HEATERS

EMERGENCY SERVICE

NJ Master Lic'd Plumber #7399

Rockaway/Fairfield
973-361-2192

Home Plumbing

Plumbing-Heating-A/C
Oil & Gas Service & Installation
Morris County Area NJ Lic # 8178
973-879-0613 VISA

Matt Barron

PLUMBING & HEATING
"Your Local Professional"
ALL PHASES PLUMBING/HEATING
973-331-9236
3 Generations - Since 1927
Free Est. NJ Lic#8326

HOME: Roofing

Town & Country Roofing

Free Estimates/Fully Insured/Licensed
973-812-6644

RENKEN ROOFING &

CONSTRUCTION, 25 YEARS EXPERIENCE
* **973-586-8700** *

Ross Roofing/Siding

Lic# 13VH03618000 Free Est. 973-696-5699

HOME: Tree Services

STEVE'S

TREE SERVICE, INC.
Complete Tree Service
Fully Ins. - Free Est.
973-335-0682

PROF: Business

The Padded Wagon®

MOVING & STORAGE
Household, Long Distance, Commercial
Specializing in Fine Art & Antiques
Lic # 00808 **973-335-5055**

Rick's A1 Mower Service & Repairs

Snowblower & Mower Service
Tune up & repairs on most
mowers, tractors & blowers
Over 35 years experience
FREE PICKUP & DELIVERY
973-271-0650

SILKSCREEN PRINT &

EMBROIDERY. 800-832-0168

PROF: Employment

Airlines Are Hiring

Train for high paying Aviation career. FAA
approved program. Financial aid if quali-
fied. Job placement assist. Call Aviation
Institute of Maintenance. 877-564-4204

DRIVERS - CDL-A

Drivers Needed! We have the Miles! OTR
positions available! TEAMS NEEDED!
Class A-CDL and Hazmat req'd. 800-942-
2104, ext 7307 or 7308- www.totalms.com

DRIVERS - Pyle

Transport needs Owner Operators &
Company Drivers! Regional Truckload
Operations. HOME EVERY WEEKEND! O/O
Average \$1.84/Mile. Steady, Year-Round
Work. Req. CDL-A, 2 Years Exp. Call Char-
ity 888-301-5855. www.DriveforPyle.com

PROF: Financial

CREDIT CARD RELIEF

Free Consultation. Save thousands of
Dollars - out of debt in mo. - NOT YEARS.
Avoid bankruptcy. Not a high priced con-
solidation or consumer credit counsel-
ing program. CALL CREDIT CARD RELIEF
866-479-5353. Not available in all States

Low mileage? Mint condition?



WE'VE GOT AN AD FOR THAT.

Sell your car in
The Record Marketplace.

NorthJersey.com

CLICK ON MARKETPLACE



*If you live, work, worship or attend school
in Morris County you can join today.*



At Picatinny...**LOAN RATES ARE FALLING**

PICATINNY'S
LOW RATE AUTO LOANS
MAKE THIS THE
PERFECT TIME
TO PUT YOURSELF INTO A VEHICLE THAT'S
PERFECT FOR YOU

New Vehicle Loans

As Low As

1.90% APR*
up to
60-month term ¹

Used Vehicle Loans

As Low As

2.25% APR
up to
60-month term ²

Limited Time Offer
Don't Wait - Get The Best Rate!

Ask About Additional Loan Discounts With **PICATINNY** *Relationship* **REWARDS**

Apply online at www.PicaCreditUnion.com or call 973-361-5225

FREE Checking, Debit Card, Online Banking & ATM Transactions**

Rockaway Branch

100 Mineral Springs Drive
Dover, NJ 07801

Mt. Olive Branch

10 International Drive South
Flanders, New Jersey 07836

Picatinny Arsenal Branch

ARDEC Building 30 South
Picatinny Arsenal, New Jersey 07806



* APR=Annual Percentage Rate. ¹ New Vehicle Loan, 1.90% APR for 60 months, \$17.50 per \$1,000 borrowed. ² Used Vehicle Loan, 2.25% APR for 60 months, 17.64 per \$1,000 borrowed. Rates and terms are subject to change at any time. The actual rate may change based on creditworthiness and PFCU underwriting guidelines. New members must open savings account with a minimum \$5 deposit to qualify for membership and loan rates. Contact the Credit Union for complete details. **Free ATM Transactions at over 43,000 ATMs Nationwide in the Allpoint Network.



Follow us:



AUTO0911